CLAIMS

1	1.	A method for reducing artifacts in a video stream, comprising the steps of:
2	decod	ling the video stream; and
3	addin	g noise to at least one pixel in a picture in the video stream following decoding in
4	an amount co	orrelated to luminance information of at least a portion of a current picture.
1	2.	The method according to claim 1 further comprising the step of correlating the
2	•	factor dependent on the temporal correlation of the current picture image with
3	one of a prev	riously displayed or decoded picture.
1	3.	The method according to claim 2 wherein the correlation factor is established
2	in accordanc	e with one of a luma or color component.
1	4.	The method according to claim 2 further comprising the step of adding noise to a
2	color compon	ent of the picture in accordance with a luma component.
1	5.	The method according to claim 2 wherein the correlation factor is first
2	established of	on an N x N pixel picture block basis (where N is an integer) prior to interpolation
3	of the additi	ve noise.
1	6.	The method according to claim 1 further comprising the step of adjusting the
2	noise based	on the intensity of an N x N block (where N is an integer) of adjacent pixels.
1	7.	The method according to claim 1 wherein the amount of noise is correlated
2	using an app	proximation of a Finite Impulse Response (IIR) filter.
1	8.	A decoder arrangement for decoding a coded video stream to yield reduced
2	artifacts, co	•
3	a vie	deo decoder for decoding an incoming coded video stream to yield decoded
4	pictures;	

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5	a reference picture store for storing at least one previously decoded picture for use by		
6	the decoder in decoding future pictures,		
7	a noise generator noise for generating noise for addition to at least one pixel in a		
8	decoded picture in an amount correlated to correlated to luminance information of at least a		
9	portion of a current picture;		
10	a noise picture store for storing the noise information for subsequent use by the noise		
11	generator.		
12	a summing block for summing the noise generated by the noise generator with a		
13	decoded picture from the decoder; and		
14	on the state of th		
1	9. The decoder arrangement according to claim 8 wherein the noise generator		
2	implements an instantiation of a Finite Impulse Response filter.		
1	10. The decoder arrangement according to claim 8 wherein the noise generator		
2	implements an approximation of an Infinite Impulse Response filter.		
1	11. The decoder arrangement according to claim 8 wherein the noise generator		
2	generates noise in accordance with decoded pictures and bit stream information supplied from		
3	the decoder.		
1	12. The decoder arrangement according to claim 8 wherein the bit stream		
2	information comprises a quantization parameter.		
1	13. The decoder arrangement according to claim 8 further including a second		
2	picture store for storing an N x N pixel block picture average, where N is an integer, for use		
3	by the noise generator.		
1	14. A decoder arrangement for decoding a coded video stream to yield reduced		

artifacts, comprising:

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3	a video decoder for decoding an incoming coded video stream to yield decoded	
4	pictures;	
5	a reference picture store for at least one storing at least one previously decoded picture	
6	for use by the decoder in decoding future pictures,	
7	a noise generator noise for generating noise in accordance with decoded pictures and	
8	bit stream information from the decoder for addition to at least one pixel in decoded in an	
9	amount correlated to additive noise of at least one pixel in a prior picture;	
10	a picture store for storing an N x N pixel block picture average, where N is an integer,	
11	for use by the noise generator. a summing block for summing the noise generated by the	
12	noise generator with a decoded picture from the decoder; and	
13		
1	15. The decoder arrangement according to claim 20 wherein the noise generator	
2	implements an instantiation of a Finite Impulse Response filter.	